

## Patent Abstracts of Japan

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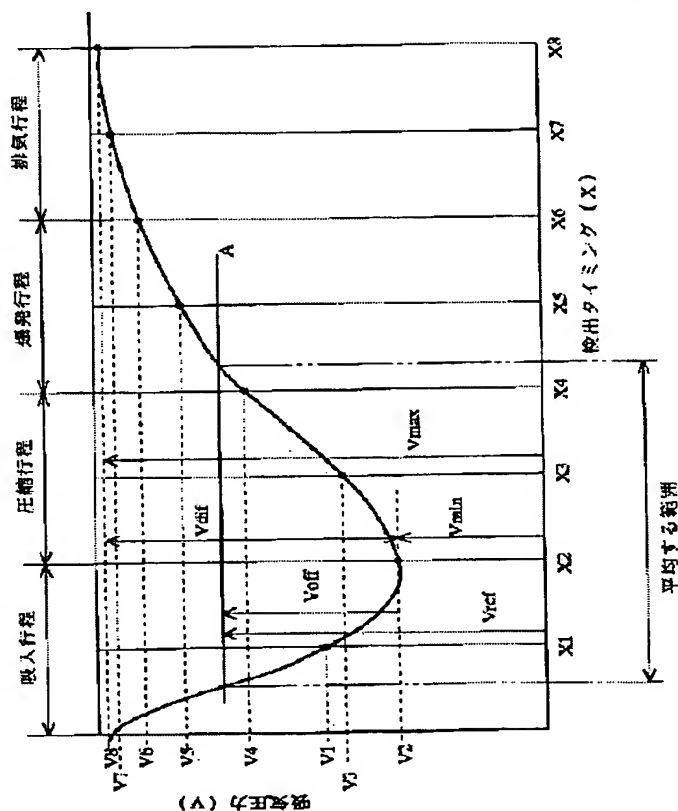
APPLICATION DATE : 22-11-00  
APPLICATION NUMBER : 2000355813

APPLICANT : MIKUNI CORP;

INVENTOR : UEDA TAKAHIKO;

INT.CL. : F02D 45/00 F02D 41/18

TITLE : INTAKE AIR AMOUNT MEASURING  
METHOD IN INTERNAL COMBUSTION  
ENGINE





**ABSTRACT :** PROBLEM TO BE SOLVED: To provide an intake air amount measuring method in an internal combustion engine in which a relationship of an intake pressure detected and a intake air amount is made to a more linear relation ship irrespective of a crank timing when the intake air amount is presumed based on the intake pressure.

**SOLUTION:** An intake pressure of the internal combustion engine is detected at a plurality of timing in all strokes and a threshold pressure is set between the minimum value and the maximum value of the intake pressure detected. The intake pressure not more than the threshold pressure of the intake pressure detected is averaged to determine an average intake pressure and the intake air amount is measured making this average intake pressure as a parameter.

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A monitoring regime with a learning facility ensures comprehensive control under both static and dynamic operating conditions.

The principles of the method can be applied to take into account the effect of both linear and non-linear influences in technological situations other than the IC engine and for these applications use is made of neural networks in support of the monitoring function.

**USE/Advantage** - Is new approach to quantification of convert fuel/air mixture for stoichiometric combustion in both stationary and dynamic operating modes.Dwg.0/13**Family:** **PDF Patent Pub. Date Derwent Update Pages Language IPC Code**☒ **DE19547496A1** \* 1997-07-03 199732 24 German F02D 41/18

Local appls.: DE1995001047496 Filed:1995-12-19 (95DE-1047496)

☒ **DE19547496C2** = 2003-04-17 200328 22 German F02D 41/18

Local appls.: DE1995001047496 Filed:1995-12-19 (95DE-1047496)

**INPADOC** [Show legal status actions](#)  
**Legal Status:****First Claim:** [Show all claims](#) 1. Verfahren zur Regelung von Verbrennungsmotoren, **dadurch gekennzeichnet**, daß der von den Zylindern angesaugte Luftmassenstrom von einem in den folgenden Ansprüchen im einzelnen dargestellten Prozeßbeobachtern derart berechnet wird, daß mit dem zuzuführenden Kraftstoff ein gewünschtes Mischungsverhältnis erreicht wird.**Priority Number:**

Application Number	Filed	Original Title
DE1995001047496	1995-12-19	

**Title Terms:** SYSTEM DETERMINE EXACT AIR INDUCTION IC ENGINE MONITOR REGIME LEAN FACILITY  
STATIC DYNAMIC REGULATE REFINE NEURAL NETWORK

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